



IFWO

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/656,531B

DATE: 09/17/2004
 TIME: 15:49:44

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
 Output Set: N:\CRF4\09172004\J656531B.raw

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4 <110> APPLICANT: Baltimore, David
5 Porteus, Matthew
7 <120> TITLE OF INVENTION: USE OF CHIMERIC NUCLEASES TO STIMULATE
8 GENE TARGETING
10 <130> FILE REFERENCE: CTCH-P01-016
12 <140> CURRENT APPLICATION NUMBER: 10/656,531B
13 <141> CURRENT FILING DATE: 2003-09-05
15 <150> PRIOR APPLICATION NUMBER: 60/408,454
16 <151> PRIOR FILING DATE: 2002-09-05
18 <150> PRIOR APPLICATION NUMBER: 60/484,788
19 <151> PRIOR FILING DATE: 2003-07-03
21 <150> PRIOR APPLICATION NUMBER: 60/419,341
22 <151> PRIOR FILING DATE: 2002-10-17
24 <160> NUMBER OF SEQ ID NOS: 52
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 18
30 <212> TYPE: DNA
31 <213> ORGANISM: Unknown
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Oligonucleotide
36 <400> SEQUENCE: 1
37 tagggataac aggtaat
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 9
41 <212> TYPE: DNA
42 <213> ORGANISM: Unknown
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Oligonucleotide
47 <400> SEQUENCE: 2
48 ggggaagaa
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 9
52 <212> TYPE: DNA
53 <213> ORGANISM: Unknown
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Oligonucleotide
58 <400> SEQUENCE: 3
59 gcgtgtcg
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 9
63 <212> TYPE: DNA
64 <213> ORGANISM: Unknown

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ENTERED

18

9

9

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66 <220> FEATURE:
 67 <223> OTHER INFORMATION: Oligonucleotide
 69 <400> SEQUENCE: 4
 70 gatgttgct
 72 <210> SEQ ID NO: 5
 73 <211> LENGTH: 15
 74 <212> TYPE: DNA
 75 <213> ORGANISM: Unknown
 77 <220> FEATURE:
 78 <223> OTHER INFORMATION: Oligonucleotide

9

W--> 80 <221> NAME/KEY: misc_feature
 81 <222> LOCATION: (5)...(10)
 82 <223> OTHER INFORMATION: n = A,T,C or G

W--> 84 <400> 5

15

W--> 85 gatgnnnnnn ttgct
 87 <210> SEQ ID NO: 6
 88 <211> LENGTH: 9
 89 <212> TYPE: DNA
 90 <213> ORGANISM: Unknown
 92 <220> FEATURE:
 93 <223> OTHER INFORMATION: Oligonucleotide

W--> 95 <221> NAME/KEY: misc_feature
 96 <222> LOCATION: 2,3,5,6,8,9
 97 <223> OTHER INFORMATION: n = A,T,C or G

W--> 99 <400> 6

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W--> 100 gnngnngnn
 102 <210> SEQ ID NO: 7
 103 <211> LENGTH: 24
 104 <212> TYPE: DNA
 105 <213> ORGANISM: Homo sapiens
 107 <220> FEATURE:
 108 <221> NAME/KEY: misc_feature
 109 <222> LOCATION: 1,2,4,5,7,8
 110 <223> OTHER INFORMATION: n = A,T,C or G
 112 <221> NAME/KEY: misc_feature
 113 <222> LOCATION: (10)...(15)
 114 <223> OTHER INFORMATION: n= A,T,C or G

W--> 116 <221> misc_feature

117 <222> LOCATION: 17,18,20,21,23,24
 118 <223> OTHER INFORMATION: n=A,T,C or G

W--> 120 <400> 7

W--> 121 nncnnccnn nnnnngnngn ngnn

24

123 <210> SEQ ID NO: 8
 124 <211> LENGTH: 9
 125 <212> TYPE: DNA
 126 <213> ORGANISM: Unknown
 128 <220> FEATURE:
 129 <223> OTHER INFORMATION: Oligonucleotide
 131 <400> SEQUENCE: 8

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132 gggaaagaa	9
134 <210> SEQ ID NO: 9	
135 <211> LENGTH: 8	
136 <212> TYPE: DNA	
137 <213> ORGANISM: Unknown	
139 <220> FEATURE:	
140 <223> OTHER INFORMATION: Oligonucleotide	
142 <400> SEQUENCE: 9	
143 gcgtggcg	8
145 <210> SEQ ID NO: 10	
146 <211> LENGTH: 24	
147 <212> TYPE: DNA	
148 <213> ORGANISM: Unknown	
150 <220> FEATURE:	
151 <223> OTHER INFORMATION: Oligonucleotide	
153 <400> SEQUENCE: 10	
154 accatcttct tcaaggacga cggc	24
156 <210> SEQ ID NO: 11	
157 <211> LENGTH: 9	
158 <212> TYPE: DNA	
159 <213> ORGANISM: Unknown	
161 <220> FEATURE:	
162 <223> OTHER INFORMATION: Oligonucleotide	
164 <400> SEQUENCE: 11	
165 gaagatgg	9
167 <210> SEQ ID NO: 12	
168 <211> LENGTH: 9	
169 <212> TYPE: DNA	
170 <213> ORGANISM: Unknown	
172 <220> FEATURE:	
173 <223> OTHER INFORMATION: Oligonucleotide	
175 <400> SEQUENCE: 12	
176 gacgacggc	9
178 <210> SEQ ID NO: 13	
179 <211> LENGTH: 24	
180 <212> TYPE: DNA	
181 <213> ORGANISM: Unknown	
183 <220> FEATURE:	
184 <223> OTHER INFORMATION: Oligonucleotide	
186 <400> SEQUENCE: 13	
187 ggcccccacc atcgctcg agcc	24
189 <210> SEQ ID NO: 14	
190 <211> LENGTH: 9	
191 <212> TYPE: DNA	
192 <213> ORGANISM: Unknown	
194 <220> FEATURE:	
195 <223> OTHER INFORMATION: Oligonucleotide	
197 <400> SEQUENCE: 14	
198 gtggcgcc	9

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Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
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200 <210> SEQ ID NO: 15
201 <211> LENGTH: 9
202 <212> TYPE: DNA
203 <213> ORGANISM: Unknown
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Oligonucleotide
208 <400> SEQUENCE: 15
209 gtcgcagcc                                9
211 <210> SEQ ID NO: 16
212 <211> LENGTH: 168
213 <212> TYPE: DNA
214 <213> ORGANISM: Unknown
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Oligonucleotide
219 <400> SEQUENCE: 16
220 actagcaacc tcaaacagac accatggtgc atctgactcc tgaggagaag tctgccgtta 60
221 ctggccctgtg gggcaaggtg aacgtgatcg ttggagtttg tctgtggtag cacgttagact 120
222 gaggactcct cttcagacgg caatgacggg acaccccggtt ccacttgc          168
224 <210> SEQ ID NO: 17
225 <211> LENGTH: 9
226 <212> TYPE: DNA
227 <213> ORGANISM: Unknown
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Oligonucleotide
232 <400> SEQUENCE: 17
233 gaggttgct                                9
235 <210> SEQ ID NO: 18
236 <211> LENGTH: 7
237 <212> TYPE: PRT
238 <213> ORGANISM: Unknown
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Synthetic zinc finger peptide
243 <400> SEQUENCE: 18
244 Gln Ser Ser Asp Leu Thr Arg
245 1           5
248 <210> SEQ ID NO: 19
249 <211> LENGTH: 7
250 <212> TYPE: PRT
251 <213> ORGANISM: Unknown
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Synthetic zinc finger peptide
256 <400> SEQUENCE: 19
257 Thr Ser Gly Glu Leu Val Arg
258 1           5
261 <210> SEQ ID NO: 20
262 <211> LENGTH: 7
263 <212> TYPE: PRT
264 <213> ORGANISM: Unknown
266 <220> FEATURE:

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267 <223> OTHER INFORMATION: Synthetic zinc finger peptide
269 <400> SEQUENCE: 20
270 Thr Ser Gly Ala Leu Thr Arg
271 1 5
274 <210> SEQ ID NO: 21
275 <211> LENGTH: 7
276 <212> TYPE: PRT
277 <213> ORGANISM: Unknown
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Synthetic zinc finger peptide
282 <400> SEQUENCE: 21
283 Thr Ser Gly Ser Leu Thr Arg
284 1 5
287 <210> SEQ ID NO: 22
288 <211> LENGTH: 7
289 <212> TYPE: PRT
290 <213> ORGANISM: Unknown
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Synthetic zinc finger peptide
295 <400> SEQUENCE: 22
296 Arg Ser Asp Asn Leu Thr Arg
297 1 5
300 <210> SEQ ID NO: 23
301 <211> LENGTH: 7
302 <212> TYPE: PRT
303 <213> ORGANISM: Unknown
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Synthetic zinc finger peptide
308 <400> SEQUENCE: 23
309 Arg Ser Asp Asn Leu Val Arg
310 1 5
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 48
315 <212> TYPE: DNA
316 <213> ORGANISM: Unknown
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Oligonucleotide
321 <400> SEQUENCE: 24
322 agcaacacctct ctagagcggtg ggcgtcgttg gagagatctc gcacccgc 48
324 <210> SEQ ID NO: 25
325 <211> LENGTH: 9
326 <212> TYPE: DNA
327 <213> ORGANISM: Unknown
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Oligonucleotide
332 <400> SEQUENCE: 25
333 ggcaagggtg 9
335 <210> SEQ ID NO: 26
336 <211> LENGTH: 7

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/17/2004
PATENT APPLICATION: US/10/656,531B TIME: 15:49:45

Input Set : A:\CTCH-P01-016 SUB SEQ.TXT
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 5,6,7,8,9,10

Seq#:6; N Pos. 2,3,5,6,8,9

Seq#:7; N Pos. 1,2,4,5,7,8,10,11,12,13,14,15,17,18,20,21,23,24

VERIFICATION SUMMARY

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Input Set : A:\CTCH-P01-016 SUB SEQ.TXT

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L:80 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:84 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:95 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:99 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0